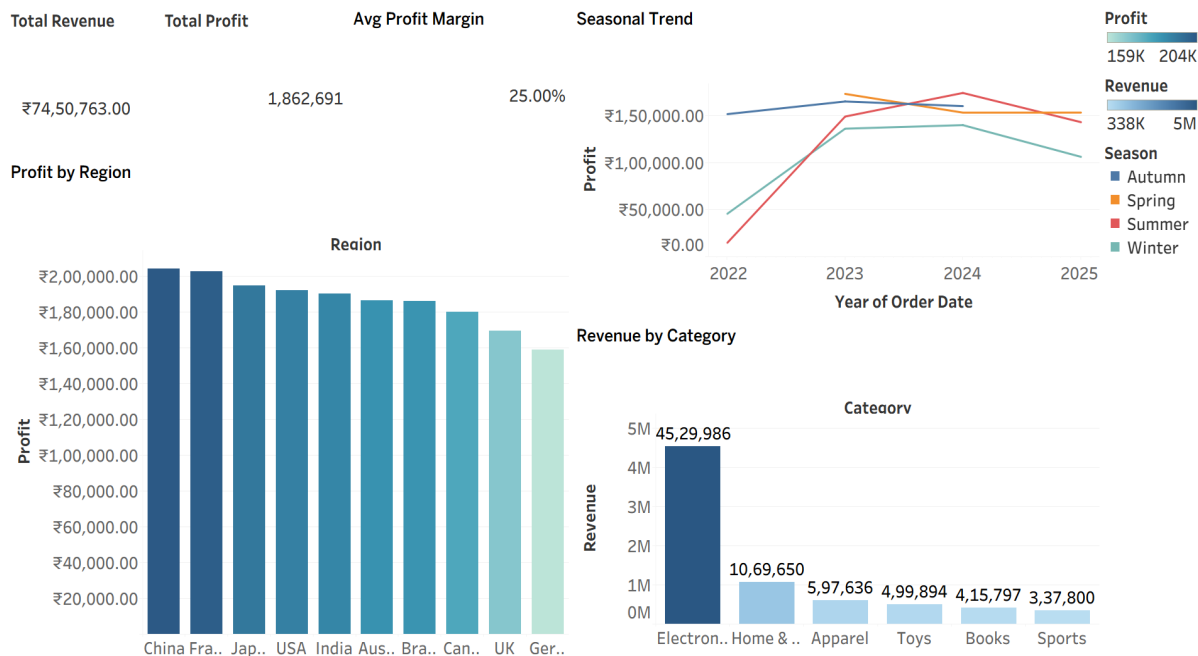


# Retail Sales & Profitability Analysis Report

**Student Name:** Krishna Biliye  
**Dataset:** eCommerce Retail Transactions (10,000 Records)  
**Tools Used:** Tableau, SQLite, Python (Pandas), Excel



## Overview

This project analyzes 10,000 online retail transactions to evaluate sales performance, profit distribution, and seasonal trends. The goal is to identify high-performing categories, profitable regions, and periods of high and low demand. The analysis leverages Tableau for visualization and SQL/Python for data preparation.

## Profitability by Region

China and France lead in profitability, each contributing over ₹2,00,000 in profits. Other strong performers include Japan, USA, and India. Germany and UK show lower profits, suggesting potential inefficiencies.

## Revenue by Category

Electronics dominate sales with ₹45,29,986 revenue (≈61% of total). Home & Kitchen, Apparel, and Toys follow as steady mid-range segments, while Sports and Books show lower revenue.

## Seasonal Trends

Autumn and Spring show the highest profitability, peaking around 2023–2024. Winter shows a decline in 2025, possibly due to demand saturation.

## Key Findings

- Consistent 25% profit margin indicates strong operational efficiency.
- Electronics dominate sales; diversification recommended.
- Asia and Western Europe outperform other regions.
- Focus marketing on Spring and Autumn for peak results.

## **Recommendations**

1. Optimize inventory for top-performing categories.
2. Adjust pricing for low-margin items.
3. Expand marketing in high-profit regions.
4. Align promotions with peak seasonal trends.
5. Add cost and ROI data for deeper insight.

## **Conclusion**

The analysis demonstrates stable growth and profitability between 2022–2025. The company's core strength lies in Electronics and Asian market success. Data-driven inventory and marketing decisions will further enhance long-term profitability.